

## DISCUSSION DRAFT FOR R307-353

**R307. Environmental Quality, Air Quality.****R307-353. Plastic Part Coating.****R307-353-1. Purpose.**

The purpose of this rule is to limit volatile organic compound (VOC) emissions from automobile, truck, and business machine plastic part coating lines.

**R307-353-2. Applicability.**

R307-353 applies to automobile, truck, and business machine plastic part coating lines operations, including related cleaning activities, that have the potential to emit 2.7 tons per year of VOCs and that are located in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties.

**R307-353-3. Exemptions.**

(1) The provisions of this rule shall not apply to any of the following:

- (a) Stencil coatings;
- (b) Safety-indicating coatings;
- (c) Electric-insulating and thermal-conducting coatings;
- (d) Magnetic data storage disk coatings;
- (e) Plastic extruded onto metal parts to form a coating;
- (f) Touch-up coatings;
- (g) Repair coatings; and
- (h) Textured finishes.

(2) If a coating line is subject to the requirements for existing automobile, light-duty truck, and other product and material coatings or for existing metallic surface coating lines, the coating line shall be exempt from this rule.

**R307-353-4. Emission Standards.**

(1) Each owner or operator shall not apply coatings with a VOC content in excess of the amounts specified in R307-353-4 or shall use an add-on control device as specified in R307-356-6.

(2) For automobile and truck plastic parts coating lines:

(a) A person shall not cause or allow the emission of volatile organic compounds from the coating of plastic parts of automobiles and trucks from any existing coating line in excess of the applicable emission rates as specified in Table 1.

(b) Except as provided for in R307-353-3 of this rule, any coating that is subject to an emission rate specified in Table 1 shall not be applied with conventional air-atomizing spray equipment. All spray equipment shall be installed, maintained, and operated in accordance with the recommendations and design of the equipment manufacturer.

(c) For red and black coatings, the emission limitation shall be determined by multiplying the appropriate limit in Table 1 by 1.15.

(d) When Method 24 is used to determine the VOC content of a high bake coating, the applicable emission limitation shall be determined by adding 0.5 to the appropriate limit in Table 1.

(e) When Method 24 is used to determine the VOC content of an air-dried coating, the applicable emission limitation shall be determined by adding 0.1 to the appropriate limit in Table 1.

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TABLE 1

AUTOMOBILE AND TRUCK PLASTIC PARTS COATING LINES  
 (values in pounds of VOC allowed to be emitted per gallon of coating,  
 minus water, as applied)

COATING CATEGORY	VOC EMISSION RATES
High bake coating - exterior & interior parts	
Prime	
Flexible coating	4.5
Nonflexible coating	3.5
Topcoat	
Basecoat	4.3
Clearcoat	4.0
Non-basecoat/clearcoat	4.3
Air-dried coating - exterior parts	
Prime	4.8
Topcoat	
Basecoat	5.0
Clearcoat	4.5
Non-basecoat/clearcoat	5.0
Air-dried coating - interior parts	5.0
Touch-up and repair	5.2

(3) For business machine plastic parts coating lines:

(a) A person shall not cause or allow the emission of volatile organic compounds from the coating of plastic parts of business machines from any existing coating line in excess of the applicable emission rates as specified in Table 2.

(b) Any prime or topcoat coating that is subject to the emission rate specified in Table 2 shall not be applied with air-atomizing spray equipment. All spray equipment shall be installed, maintained, and operated in accordance with the recommendations and design of the equipment manufacturer.

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TABLE 2

BUSINESS MACHINE PLASTIC PARTS COATING LINES  
(values in pounds of VOC allowed to be emitted per gallon of coating,  
minus water, as applied)

COATING CATEGORY	VOC EMISSION RATES
Prime	2.9
Topcoat	2.9
Texture coat	2.9
Fog coat	2.2
Touch-up and repair	2.9

(4) If a part consists of both plastic and metal surfaces and is exempted from the requirements for existing metallic surface coating lines, the part shall be subject to this rule.

#### **R307-353-5. Work Practices and Recordkeeping.**

- (1) The owner or operator shall:
  - (a) Store all VOC-containing coatings, thinners, and cleaning materials in closed containers;
  - (b) Minimize spills of VOC-containing coatings, thinners, and cleaning materials;
  - (c) Clean up spills immediately;
  - (d) Convey any coatings, thinners, and cleaning materials in closed containers or pipes;
  - (e) Close mixing vessels that contain VOC coatings and other materials except when specifically in use;
  - (f) Minimize usage of solvents during cleaning of storage, mixing, and conveying equipment; and
  - (g) Dispose of dirty cleanup solvent by recycling, reclaiming, or by incineration in an incinerator approved to process hazardous materials or by an alternate means approved by the director.
- (2) The owner or operator shall maintain records from the manufacturer that demonstrate compliance with the emission standards of R307-348-4.

#### **R307-353-6. Optional Add-On Controls.**

- (1) The owner or operator may install and maintain an incinerator, carbon adsorption, or any other add-on emission control device, provided that the emission control device will attain at least 90% efficiency performance.
- (2) The owner or operator of a control device shall provide certification from the manufacturer that the emission control system will attain required efficiency performance.
- (3) Emission control systems shall be operated and maintained in accordance with the manufacturer recommendations. The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being

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1 operated and maintained in accordance with the manufacturer  
2 recommendations.

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4 **R307-353-7. Compliance Schedule.**

5 All sources within Box Elder, Cache, Davis, Salt Lake, Tooele,  
6 Utah and Weber counties shall be in compliance with this rule by  
7 September 1, 2013.  
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